

the CARRIER

W6CX



the MOUNT DIABLO AMATEUR RADIO CLUB

A SPECIAL SERVICE CLUB

VOLUME XXXVIII - ISSUE 1 - JANUARY 1991

HAPPY NEW YEAR TO ALL

SOME THOUGHTS FOR 1991

By Pete Tormey N6QGN
President

This Club has had a great year in 1990 and I am trying to think what could we do to make it a better year in 1991? Here's a couple of ideas to share.

A NO-CODE LICENSE.

One thing that would make 1991 a better year than 1990 is a smooth transition to no-code and some new friendly people to share our hobby. A no-code license will directly affect MDARC since the new Hams will only have access to the line of sight frequencies we use. Of course there will be issues to deal with, but each issue is also a unique opportunity for MDARC.

Never before have our Ham classes been more important! Now we need to teach more than just how to get your ticket. We need to teach about the Amateur community in the Diablo area. We need to teach new Hams that we have a host of great organizations that work to make Amateur radio fun, exciting and helpful.

We need to teach new Hams the importance of joining groups like RACES, VIPs and MDARC. We need to stress the importance of community service. If our VHF & UHF bands get more crowded, good radio practice and common courtesy must prevail and, the only place new Hams will learn this is from existing Hams.

Regardless of your feelings about a no-code license, we can shape the future of radio in the Diablo Valley by maintaining a high level of friendliness and courtesy and letting new Hams know we expect them to do the same.

CONTINUED ON PAGE 7

GET ACQUAINTED WITH THE 1991 OFFICERS - THEY'RE LISTED ON PAGE 5

MDARC's CHRISTMAS PARTY 1990
By the Editor

As Chairman George Roush promised, the Club Christmas Party dinner was served PROMPTLY at 7PM, and the dinner, catered by Chuck and Teresa Massetti of Martinez, was as George promised in the November newsletter, "a Christmas dinner with all the fixin's". Thanks Goerge ! (There were 120 adults and 8 children, members and guests). (Last year, just under 100 attended).

Jane Walker, Awards Chairperson, presented awards and recognition to the many deserving members who contributed their time and effort during the year for community service, public service events, Club nets, repeater maintainance and upgrading, ATV development and maintenance, and to demonstrate our continuing extra commitment to Amateur Radio and maintain our Special Service Club status; those who ran our 'Ham' school, who participated in emergency communications (RACES/ARES), the technical development programs, operating activities (Field Day etc), and the newsletter (public relations).

The KILROY KEY was awarded to George Roush.

The SUPERIOR SERVICE AWARD was given to Dr. George Jones.

The HAM OF THE YEAR AWARD was given to Jay Caldis.

Plaques for SPECIAL SERVICES were given to:

Lauren Styles and Dick Brown.

A surprise Special Service Award was presented to Jane Walker by Larry and Pat Gansz, for the Club, in recognition of her years as Club Secretary and Awards Chairperson.

Jessica Styron (daughter of member Harry Styron) played "Jingle Bells" on the piano, a special solo.

Santa Claus arrived and, with his usual charm, distributed gifts to the children present.

(Santa's voice is very similiar to Paul Girard's voice !)

After dinner, Michael Brooks contributed his musical talents, playing very appropriate Christmas music on the piano.

Tim Barrett and Burt Dawson ATV'd the entire proceedings.

Derek Brown, 1990 Club President, presented the President's gavel to Pete Tormey, 1991 Club President.

The party was over, and the New Year was off to a another good start !!!!

NON-HAM PRIZES GIVEN TO OUR GUESTS
AT MDARC CHRISTMAS PARTY

Complimentary raffle tickets were distributed to our Christmas Party guests by the Raffle Chairman's committee. They had the choice of these prizes when their raffle numbers were called.

Microwave Cooker

Corn Popper

Phone Mate Answering Machine

Sony Dream Machine

LaSonic Jewelry Cleaner

Walkman FM/AM Radio

Mini-maglite Set

Casio Calculator

Wrap-around Massager

Coffee Mill

Seiko Kitchen Whiz (2)

Salt Shaker & Pepper Mill (2)

Gift Certificates, \$20 and \$10

from the Red Lobster,

Walnut Creek

Gift Certificate \$25 from the
Old Spaghetti Factory,

Concord

Gift Certificate \$10 from

Scott's Seafood Grill and Bar,

Walnut Creek

PERSONAL PROFILE

PETE TORMEY, N6QGN
CLUB PRESIDENT

My early interest in Amateur radio started in high school when a friend showed me his new "toy". It was a portable 2M rig he carried with him to class. It wasn't long before we decided everyone in the future would have a "Dick Tracy" style wristwatch radio and could "work the world". I immediately set out to learn morse code and I failed miserably.

Several years later I entered the U. S. Coast Guard and became an electronics technician. It wasn't long before I had a pretty good grasp of radio theory - but still no morse code. We passed the time at sea tuning around and listening to what was out there. The further out you go the better the short wave listening gets!

When I got out of the service I got a job working for WAYNE MERRYMAN WB6WZV. Although Wayne touted the virtues of Ham radio, and even let me talk on his HF rig, I still resisted the urge to get my ticket.

Actually, there was another interest in my life, Debbie, (now my wife !) who I met soon after I got out of the service and started dating. We were both students at San Francisco State University and a typical date for us was doing homework together!

Finally, I needed a part time job to finish school and started working in a radio repair shop. This job coincided with my electronic engineering studies and I knew, with my engineering education, it was simply a matter of passing the code test and a little reading to get my ticket. If I had known in high school what I know now I sure would have gotten my license sooner!

Somehow, I missed hearing about all the things Amateurs do around

the community. I soon realized that a lot of Hams (and potential Hams) did not know anything about Amateur radio. After spending a lot of time telling people about Ham radio, I decided to get involved in MDARC. I know that with any organization, you get out of it what you put into it, so, I volunteered to be Public Relations Chairman in 1990.

We are lucky to have such an active Amateur community here in the Diablo valley. There are a lot of fun things happening, and being a member of MDARC lets me participate. I hope that in the coming year, I can help maintain MDARC as the community resource it is now.

SLED DOG MARATHON SPECIAL EVENT STATION

Duluth Minnesota area Hams will operate a Special Event Station KBØDAV (Dogs After Victory) January 15-21 to commemorate the 8th Annual JOHN BEARGREASE SLED DOG MARATHON. The Beargrease Amateur Radio Coalition (BARC) PROVIDES A SAFETY NET FOR THE HEALTH AND WELFARE OF THE MUSHERS AND DOGS during the 500 mile wilderness race.

Operations will be on-going throughout the race, SSB and CW 10 thru 80M.

For a QSL, send your QSL and a SASE to BARC, P.O.Box 500, Duluth, Minnesota, 55801. (WorldRadio 1/91)

TAKE YOUR HAND-HELD WITH YOU. You never know what emergency you will face, and you might need it. You also EARNED the right to use it.

The New Bern (North Carolina) ARC will sponsor a Ham Radio licensing class using ARRL materials. A Novice Class will be conducted in SAUDI ARABIA by its Club member Mark Bitterlich WA3JPY. Mark said it will relieve the boredom and inactivity of those serving in "the sand pile".

ROCKY RIDGE REPEATER GROUP
MINUTES - 11/21/90

OLD BUSINESS:

Treasurer's report: \$1057.61 in the bank and all bills paid.

VOTED to approve minutes of the Sept. meeting as published in the Oct. Carrier

NEW BUSINESS:

The Pres. presented a letter from Don Smith W6NKF offering the Mt. Diablo TV repeater as a donation to Rocky Ridge. This equipment has a value of \$4000-\$5000. MOTION MADE AND SECONDED to accept the W6NKF repeater donation with an additional appropriation of \$350 to change ID's and transfer NARC sanction. PASSED. We now have a TV repeater too!

Officers for 1991 were elected. They are:

President:	Rick Barber	WB6EZI
Tech Chair:	Keith Lattin	N6PMF
Treasurer:	Norma Davis	N6EJZ
At Large:	Dwayne McGlothlin	N6SPX
"	Mike Scott	N6GOZ
Secretary:	Tom Vernon	WB6YJX

At least 15 new members joined due to the ATV repeater transfer.

Welcome the following new members to Rocky Ridge:

Sue KC6OBU, Ron K6XC, Fred KC6OUX,
Tom WB6YJX, Guy N6DTU, Lyle KB6DOW,
Ernie WA6WOZ, Tim WD9BIV,
Chris N6RAL, Marriot N6RFQ,
Dick WA9UKA, and Robert W6TMU.

TECHNICAL COMMITTEE

Software Mods for Rocky Ridge's use of the new controller are coming along. The mods will permit control of 3 repeaters and two phone lines.

Respectfully submitted
Don K7SDF, Secretary

ABOUT MDARC'S REPEATERS
By Don Ledwith, K7SDF
RRRG Secretary

The Rocky Ridge Repeater Group is a subcommittee of MDARC supported by separate membership fees. They run FM repeaters on 2 meters, 220 and 440 Mhz and an ATV repeater, on Mt. Diablo.

The Club's repeaters are open to use by any licensed Amateur Radio Operator, however, membership in the Group is encouraged as it helps support the repeaters and, additionally, it provides access to auto-patch and autodial telephone capabilities.

Repeaters are normally in PL except for nets and special events.

To join, you MUST be a member of MDARC, and you MUST be sponsored by a member of the Rocky Ridge Group.

The Group's meetings are held the 3rd Wednesday of every odd numbered month, at 8PM, at the Willow Creek Center, 1026 Mohr Lane, Walnut Creek.

DID YOU CORRECT YOUR CLOCKS ?

The International Earth Rotation Service has announced that an extra (leap) second was inserted at the end of the last minute of 1990 UT. Thus 23:59 UT December 31st had 61 seconds.

This kept Universal Coordinated Time (UTC, Z) in step with a gradual slowing of the spin of the Earth.

All standard civil times are based on UTC and received a leap second simultaneously.

(Editor: This is published in the event you forgot to correct your clocks).

400 COPIES OF THIS NEWSLETTER (JAN 1991) WERE PRINTED AND DISTRIBUTED, THE LARGEST NUMBER OF ONE ISSUE PRINTED IN THE HISTORY OF THE CLUB.
.....WE'RE GROWING !!!!!.....

**CALIFORNIA DIVISION OF FORESTRY
PERSONNEL CHANGES ARE
TEMPORARILY AFFECTING THE
VOLUNTEERS IN FIRE PREVENTION (VIP)
PROGRAM**

Responsibility for the Fire Prevention Program has been assigned to RICHARD J. CLANTON, Santa Clara Ranger Unit Chief, who has been with CDF over 25 years.

In a letter to PAUL GIRARD dated January 2, 1991, Clanton said, "I am very much aware of the lack of support for the North end of the Ranger Unit and have taken strong action to see that the problem is corrected. There have been personnel re-assignments which I feel will lead to a good VIP program".

CHRIS MORGAN will have total VIP responsibility within the Santa Clara Ranger Unit. He sent out a survey recently and is using the responses for re-organization.

In his letter, Clanton said Morgan has developed plans based on the objectives of the VIP program and the Santa Clara Ranger Unit Fire Protection Plan, and, "I feel Chris has a good overall program and all he needs is SUPPORT AND A LITTLE TIME".

Morgan will be contacting each member on the North end of the Ranger Unit and advise them of a meeting scheduled for the 26th of January 1991.

**SINCEREST CONDOLENCES TO
JOHN PERCIVAL WIGO
ON THE PASSING OF HIS
MOTHER**

THE MT. DIABLO AMATEUR RADIO CLUB
MEETS MONTHLY, 3rd FRIDAY, 8PM
at the

GRACE PRESBYTERIAN CHURCH
2100 Tice Valley Boulevard
Walnut Creek

NEXT MEETING - JANUARY 18, 1991

Visitors are always welcome

CLUB OFFICERS

PRESIDENT

PETE TORMEY N6QGN 680-0920

VICE PRESIDENT

RICHARD SHAPPEE WA5HQJ 682-1644

SECRETARY

WALTER EBBETT KB6QIB 837-2204

TREASURER

BERT DAWSON KB7QBGM 372-6536

EMERGENCY COORDINATOR

MARK CURLEY N6MIN 672-6960

DIRECTORS

DICK BROWN KT6X 676-9048

LARRY GANSZ KB2GV 356-2411

CLUB REPEATERS

147.06/+	223.74/-	441.325/+
(100 Hz)	(77 Hz)	(100 Hz)

CLUB NETS

ROCKY RIDGE REPEATER GROUP

Thursdays 1930 hours 147.06/+R
Jay Caldis KT6Y Net Control

AMATEUR TELEVISION NET

2000 hours (follows RRRG Net)
Mike Scott N6GOZ Net Control
Tim Barrett WD9BIV Alternate

"the CARRIER" NEWSLETTER EDITOR

STAN CHRISTIAN WU6P
5450 CONCORD BLVD. #C4
CONCORD, CA 94521
(415) 672-0330

Send contributions:

- (1) by MAIL OR TELEPHONE
- (2) to WU6P @ KA6FUB 144.99 MHz

MEMBERSHIP DIRECTORY UPDATE

by George Jones, KI6YK

MDARC welcomes the following new members:

BAXTER, V.R. (Bud); KK6QS, Extra; 59 St. Timothy Ct., Danville, CA 94526; (415)838-1907(h)
 BELTON, Jan; SWL; 301 Bruno Ave., Pittsburg, CA 94565; (415)439-2812(h)
 de la CRUZ, Iniga U.; SWL; 1490 Pine Tree Dr., Alamo, CA 94507 (415)935-7528(h)
 DARROW, Mary F.; call pending, Technician; 3451 Laurel Ave., Oakland, CA 94602; (415)530-1514(h), (415)635-1000(w)
 LILLARD, Jeff; N6XZT, General; 200 Oak Park Ln., Pleasant Hill, CA 94523; (415)933-9455(h)
 NOYES, Eveline G.; KC6OGB, Technician; 1689 Regent Dr., San Leandro, CA 94577; (415)351-0170(h)
 NOYES, Philip P.; KC6OCI, Technician; 1689 Regent Dr., San Leandro, CA 94577; (415)351-0170(h), (415)632-3443(w)
 PAULSEN, Paul; KA7GBE, Advanced; 2070 Stratton Rd., Walnut Creek, CA 94598; (415)933-2680(h), (415)544-3351(w)
 PAYNE, Dawn; KC6NLT, Novice; 1728 Camino Verde, Walnut Creek, CA 94596; (415)933-5948(h). Now a student at Cal State Fresno
 PLOSS, Robert E.; SWL; 110 Starview Ct., Oakland, CA 94618; (415)-843-1334(h)
 van LOOSDRECHT, Eskil U.J.; call pending, passed extra; 1405 #A Bel Air Dr., Concord, CA 94521 (415)687-5212(h), (415)685-1159(w). Belgian call is ON7EV and Swedish call is SM0SRR
 WAHL, Bernt R.; N6XQS, Technician; P.O. Box 13991, Berkeley, CA 94518; (415)644-0139(h)
 WASHA, JoAnn; N6XZS, Technician; 3032 Stinson Cir., Walnut Creek, CA 94598; (415)930-0616(h)

WASLEY, Eleanor; KA6IZK, Novice; 95 Via Floreado, Orinda, CA 94563 (415)254-3073(h)

Congratulations to the following on their upgrade and/or new call:

Emil BERGH: KC6PPS, Technician.
 Fred DOXSEE: KC6OUX, Technician.
 Grant HEISE: AA6XM
 Ken KYLE: KC6PFQ, Technician.
 Bill NYE: General.

Remember, if you haven't renewed your MDARC membership for 1991, do so right away because your membership will be terminated if not renewed by January 31, 1991.

NO TRAFFIC TO SAUDI VIA MARS
PLEASE !!

The directors of all three MARS services (Army, Air Force and Navy/Marine Corps MARS) have issued repeated bulletins within MARS channels which emphatically state that traffic from CONUS to the Desert Shield Area of Responsibility (AOR) IS NOT TO BE ACCEPTED, due to lack of stations in the AOR, limited local-dissemination routes, and an inability to trace the massive array of units constantly on the move.

That traffic which ends up being refiled from Amateur Radio to MARS ends up becoming part of a massive backlog of undeliverable messages which are swamping the MARS relay stations on the East Coast.

The best means to reach military members stationed in the AOR is a properly addressed letter to the appropriate APO/FPO address. Military postal units are the only people with the ability to reliably route communications to the units/people addressed.

(WY60@KB6GVT-KA6FUB#48294)

ONE HAM's CONCERN ABOUT....

WILL WE LOSE THE 440 NEXT ?

220 to 222 was lost in part to lack of use (see FCC NPRM regarding allocation to UPS land mobile) and need for alternative technologies (AACSB which has yet to surface). The FCC used the repeater guide as evidence of lack of use.

The pressure for more efficient spectrum usage will grow, not decline. Looking at the repeater guide for Southern California, it is quite apparent that the frequencies have been "privatized" and are often used very little, aside from inter-com usage between close friends.

Were I to ask my local Congressional representatives to protect 440 from reallocation, to what would I turn as evidence of "efficient" use or even open use by the amateur community? Clearly I would have to hide the local repeater directory, as it sends a clear signal to anyone who reads it, 430 to 450 is either unused, or private.

It is simply unconscionable to protect the number of private and closed repeaters, for the benefit of a few amateurs, many of whom only use these 440 repeaters when someone else attempts to erect a system on that same frequency. Then activity grows, to the point of linking a busy 2-meter repeater through a remote receiver to jam the newcomer. Don't think it's beyond belief, it's happened a number of times, to a number of people.

We have SCRBBA that will not list repeater locations for whatever reason is at the time expedient. First, "we don't want to divulge the location... there's been a lot of theft" or "we don't want to divulge the location, or else people would start coordinating themselves" etc.

220 Mhz was a loss, to be sure. 440 is a lot larger band, and commercial services are only a few Mhz away. Were I to guess what's next in

the list of lost frequencies, I'd put my money on 440 as our next loss. Why? Because of greed, privatization, secrecy, the "old boys" network, and yes, stupidity. It doesn't take a rocket scientist to figure out that we have more people with frequency needs than we have frequencies.

The FCC could put a scanner (they have real nice ones that can provide histograms of frequency usage over time) on 440 to 450, and make a very good case, that it's more spectrum than Amateurs can use. Then they'll look to the repeater guide, and conclude rightly that if we have room for all these private and closed repeaters, the band must be too big. What do you think?

(WA4EGT@KB6GFT-KA6FUB#47939)

The FCC is currently giving serious consideration to locating Doppler wind shear radar at 420-421 or 440-441 MHz with a need of perhaps 5 MHz of spectrum. In many parts of the U.S. the 420-450 band is already shared with military radar. (LARK)

continued from Page 1

SOME THOUGHTS FOR 1991

OFFICIAL OBSERVERS NEEDED

We also need some help with our Official Observer (OO) program. For those that don't know, the Official Observers are Amateur radio's method to police ourselves. OO's monitor the bands where and when there is a problem and work with the Official Observer Coordinator (OOC) and the ARRL Section Manager. If there is a problem with a bad operator, the OOC can work with the FCC to solve it.

Being an OO would be a very beneficial and a fun way to get involved. If you want to keep the frequencies clean here is your way to help. Complaining will not solve any problems - getting involved will. If you are interested, give me a call and I will let you know more about what is required.

THE FLORIDA KEYS

make up one of the most interesting island groups in North America. They begin south of Miami, and are separated into three sections; the Upper, Middle, and Lower Keys. Among the inhabitants, Ham radio operators are a vital group participating in many community activities. Emergency communications are handled mainly by the Florida RACES group, especially during the hurricane season.

This year, the Florida Keys Amateur Radio Club is sponsoring the "WORKED ALL KEYS" (WAKEY) Award. Work and confirm five different Florida Keys on HF. Send your QSL cards (or a photo copy of them) to the Florida Keys Amateur Radio Club, P.O.Box 545, Big Pine Key, Florida 33043, for your award.

TEN METERS is a good band on which to work DX QRP. To check propagation on 10 meters, many Beacons are active in many parts of the world.

They send continuous CW with ID, QTH, power output and antenna used. In some cases they also send an address for you to QSL. MANY BEACON OPERATORS APPRECIATE RECEIVING QSL's TO KNOW WHERE THEY ARE HEARD AND THEIR SIGNAL STRENGTH.

Below are a few frequencies to monitor to determine band openings. Most of them operate QRP.

Argentina	28.254.5	LU1UG
Australia	28.261.5	VK2RSY
Bahrain	28.245	A92C
Colorado	28.275	AL7GQ
England	28.215	GB3RAL
New Zealand	28.230	ZL2MHF
Norway	28.237.5	LA5TEN
West Germany	28.205	DL1PI

(Thanks to Dave VE2MPD-MARC)

ROD STAFFORD, KB6ZV, HAS RECEIVED AN APPOINTMENT FROM GOVERNOR DEUKMEJIAN AS A MUNICIPAL COURT JUDGE IN SAN JOSE. ROD IS THE FORMER PACIFIC DIVISION DIRECTOR, ARRL, AND IS NOW AN ARRL VICE PRESIDENT. (KA6FUB#50662)

WORLDWIDE DISTRIBUTION

For A HRO 72 Page
 Communication Equipment Catalog
 Send \$1.00 to any HRO Store

Now 10 STORE BUYING POWER

LARGEST HAM OUTLET IN THE WORLD

TOWER COMMUNICATIONS

concept

KENWOOD

ALL MAJOR BRAND ACCESSORIES

HRO is in DENVER!

ICOM

TEN-TEC

HAM RADIO OUTLET COAST TO COAST

NEW STORE! Now in Denver!

HRO = Rapid deliveries from the store nearest you!

THIS GIVES YOU EVEN BETTER RESPONSE PRICES LOW-LOW OUTLET PRICES & RAPID DELIVERIES COAST TO COAST.

GEORCHRON

GLOBAL TIME INDICATOR

Advanced Electronic Applications

YAESU

YAESU

FREE **<Shipment!**

most items over \$100 UPS surcharge

All Major Brands in Stock Now!

CALL TOLL FREE

Now! Toll free In California!

WEST 1-800-854-6046

SOUTHWEST 1-800-414-7927

INDIANATIA 1-800-444-0047

NEW ENGLAND 1-800-444-0047

TO ALL RADIO AMATEURS

QST DE W1AW
ARRL BULLETIN 55
FROM ARRL HEADQUARTERS
NEWINGTON CT DECEMBER 29, 1990

FCC ANNOUNCED ON DECEMBER 27 DETAILS OF THE NEW CODE FREE TECHNICIAN LICENSE. THE LICENSE WILL CARRY FULL AMATEUR PRIVILEGES ABOVE 30 MHZ. THE NEW REGULATIONS ARE EFFECTIVE FEBRUARY 14, 1991. CURRENT LICENSEES OF ALL CLASSES, INCLUDING EXISTING TECHNICIANS, WILL NEITHER GAIN NOR LOSE PRIVILEGES. THE NOVICE LICENSE WILL CONTINUE TO BE AVAILABLE TO NEW APPLICANTS. FURTHER INFORMATION WILL APPEAR IN THE FEBRUARY ISSUE OF QST.
(KD3OA@NR3U-KA6FUB#50052)

SEND YOUR 1991 DUES TO THE MEMBERSHIP CHAIRMAN TODAY. YOUR NAME(S) WILL NOT APPEAR IN THE 1991 ROSTER IF DUES ARE NOT RECEIVED BY JAN.31

TO ALL RADIO AMATEURS

QST DE W1AW
ARRL BULLETIN 56
FROM ARRL HEADQUARTERS
NEWINGTON CT DECEMBER 29, 1990

FCC RULED ON DECEMBER 27 ON EXEMPTING APPLICANTS WITH DISABILITIES FROM THE 13 AND 20 WPM MORSE EXAMINATIONS. APPLICANTS UPGRADING TO A LICENSE REQUIRING THESE CODE LEVELS MAY PRESENT TO VEC's A CERTIFICATION FROM A PHYSICIAN TO BE EXEMPTED FROM THE CW REQUIREMENT. ONLY CERTIFICATIONS BY DOCTORS OF MEDICINE AND OSTEOPATHY WILL BE ACCEPTED. APPLICANTS WILL ALSO BE REQUIRED TO SUBMIT A RELEASE ALLOWING FCC ACCESS TO APPROPRIATE MEDICAL RECORDS. THE NEW REGULATIONS TAKE EFFECT FEBRUARY 14, 1991, THOUGH WAIVERS OF 13 AND 20 WPM CODE TESTS ARE ALREADY AVAILABLE UNDER SIMILAR CONDITIONS. MORE INFORMATION WILL APPEAR IN FEBRUARY QST.
(KD3OA@NR3U-KA6FUB#50049)

THE BASE STATION

Your Contra Costa Ham Radio Headquarters

A.E.A. Interfaces, T.N.C.'s & Antennas
Ameco Books, Code Keys & Oscillators
Amphenol Coax Connectors
Astron Regulated Power Supplies
A.R.R.L. License Manuals, Books, Tapes
and Reference Guides
Avant/ Antenna Specialists "On Glass" Antennas
A.O.R. Ace Scanning Receivers
Bencher Paddles
B. & W. Antennas, Coax Switches & Accessories
Bearcat/Uniden Scanners
Butternut Antennas

Calbooks, Maps, Guides & Supplements
Carol/Columbia Coax Cable
Cushcraft VHF & UHF Antennas
Hustler Mobile Antennas, Mounts & Brackets
Gordon West Books and Code Practice Tapes
Larsen V.H.F. & U.H.F. Mobile Antennas & Mounts
M.F.J. Keyers, Tuners, T.N.C.'s, Switches & Access.
Mirage V.H.F. & U.H.F. Amplifiers
Wm. Nye Code Keys & Oscillators
P.C. Electronics Amateur TV Converters & Xmtrs.
Van Gordon Antennas, Insulators & Wire
Yaesu H.F., V.H.F. & U.H.F. Transceivers
and Accessories

Antenna Masts
Guy Wire
Wire Clamps
Mast Bases
Egg Insulators
Dog Bone Insulators
Center Insulators

Copper Wire
Bakins
Magnetic Antenna Bases
Trunk Mounts
Ball Mounts
Gutter Mounts
Code Practice Oscillators

Code Practice Software
S.W.R. Meters
Ground Rods
Coax Patch Cords
Mic Plugs & Connectors
PL-259's, & N Connectors
Headphones

Flexible Rubber Antennas
Scanner Frequency Books
Scanner Antennas
Radio Publications, Inc.
Radio Handbooks
Frequency Spectrum Charts
Operating Manuals

DISCOVER

1839 East Street
Concord, CA 94520
(415) 685-7388

Mon-Fri: 10-5:30 Sat: 9-4

In Downtown Concord between Willow Pass Rd. & Concord Blvd.





FIRST CLASS MAIL



"the CARRIER"
A Newsletter from the
MOUNT DIABLO AMATEUR RADIO CLUB
P.O. Box 23222
Pleasant Hill, California 94523

